

### **Purchasing Receipts**

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Serial No	Status	Receive Date	Price/Unit	Aging Days
PO038893	ACI001-VC	1	1	Net 30	M6061T6R1.625	6081T6 Round Bar 1.625: MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QC-A-225/8 OR AMS-4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS-QC-A- 200/8 OR AMS-QC-A- 200/8 OR AMS-4160 OR ASTM B221 OR ASTM B221 receive ft				12	1/2/2018	12		S038521		2/2/2018	\$ 6 72 / ft	0
		7			M303R1.00	303 Round Bar 1.00: MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582 NOTE:304/316 NOT ACCEPTABLE receive ft				24		24	V	8038523		2/2/2018	\$ 8.06 / ft	0
		9			MT-4140QT-RT.37	MT-4140 QT-R1.375 : MAT'L: AISI 4130 QUENCHED & TEMPERED ROUND BAR AS PER ASTM 4140 QT OR ASTM 4142 QT				20		20	U.	8038523		2/2/2018	\$ 9.39 / ft	0
		10			MT-41400T-R2,280	AISI 4140 Q&T Round Bar MAT'L: AISI 4130 QUENCHED & TEMPERED ROUND BAR AS PER ASTM 4140 QT OR ASTM 4142 QT						20	*	S03652.		2/2/2018	\$ 21.76 / ft	0
		11		1	MT-A513-T- 4.000W0.120	A513 Seamless Alloy Beel Round Tubing 4"dia. x 0.120" Wall						20	1	\$038525	Btock	2/2/2018	\$ 19,35 / ft	0
		15			M394B0.750X2.600	304 Bar .750 X 2 50 : MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE AS PER ASTM A276 OR ASTM A240 NOTE: AISI 303 NOT ACCEPTABLE receive fi				12		12	1	5038526	Stock	2/2/2018	\$ 24 22 / ft	0
		16			M30480.500X2.500	304 Bar .500 X 2.50 : MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE AS PER ASTM A276 OR ASTM A240 NOTE: AISI 303 NOT ACCEPTABLE receive ft						12	9	\$08852	Stock	2/2/2018	\$ 13.47 / ft	0
		19		8	M2024T3S.125	2024-T3 .125 Sheel: MATERIAL: 2024-T3 ALUMINUM SHEET AS PER QQ-A-250/4 OR AMS-QQ-A-250/4 OR AMS 4037 OR ASTM B209 receive sf				48		48	1	S038528	171	2/2/2018	\$ 17.35 / sf	0
		20		6	M5052H32\$.032	MATERIAL: 5052-H32 ALUMINUM SHEET AS PER QQ-A-250/8 OR AMS-QQ-A-250/8 OR AMS 4016 OR ASTM B209 receive sf				64		64	1	\$03852	Stock	2/2/2018	\$ 2 59 / sf	0
						1200110 01			Total:	232		232						

Plex 2/2/2018 2:12 PM Dart Dubois Pascal

CO00071920

COURT FILE	935, Boul. du Hâvre  936, Boul. du Hâvre  Salaberry de Valleyfield (Onébec) 760 51 1	Customer N°	CLI0001056
	Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242	Delivery date	2018/02/01
		Your order No	PO038893
DART AEROSPACE LTD	Shipped to	Processed by	Stephanie Dignard
1270 ARERDEEN ST		Salesman	
HAWKESBURY, Ontario, K6A 1K7	, Ornand,	Carrier	OUELLETTE VALLEYFIELD
	Att : CHANTAL LAVOIE Tél.: 613-632-5200	<b>Credit Terme</b>	Net 30 Days
Instruction F-M	Delivery Route 5	Page	₽
Product Description	Weight Oty U/M	PCS NB	Internal Use Only
	4.7	CMD EXP B/O	IN I S C
1 ROUND ALU 1 5/8 6061-T6 RANDOM RAL-158-V 5138  1 X 12' AC13162-TH-2018/01/31	29.23 12.00 PI_\$CLB	7,78	7
2 ROUND SS 1 303 RANDOM	64.08 24.00 PI_\$CLB		2
2 X 12' R/L		2x12'4'	2
3 ALU SHEET 1/8 2024-T3 RANDOM NS FEAL-182024-V <b>8603</b>	84.58 48.00 PI2_\$CLB	4.	
1 X 4' X 12'		U.X.2.	83
Conditions :	Total Weight (Lbs): 177.89	NIR : R-109516-6	

All sold and delivered materials remain the property of "Acier Quellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Quellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Quellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge. Prepared By : Verified By :

	1.0.1	Jenvered by :   Time
Customer's Signature		
Da	118012	_
Date	100	_ D

Total (\$CAD)

		la l		
Fax: 450-377-5696 MH: 514-336-4246 Ext . 866-456-4242	Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248	Salaberry de Valleyfield (Québec) J6S 5L1	935, Boul. du Hâvre	ACIER OUELLETTE INC.
De	1	Da	2	2

## **DELIVERY - CLIENT**

CO00071813

	935, Boul. du Hâvre	Customer N°	CLI0001056
, mc	Salaberry de Valleyfield (Québec) J6S 5L1 Tél.: 450-377-4248 MH: 514-336-4248 Fx+ : 800-667-4248	Date	2018/01/30
	Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242	Delivery date	2018/02/01
Rilled to		Your order N°	PO038893
ROSPACE LTD	Shipped to	Processed by	Stephanie Dignard
1270 , ABERDEEN ST.	Ontario	Salesman	
HAWKESBURY, Ontario, K6A 1K7	) or manifely	Carrier	OUELLETTE VALLEYFIELD
	Att : CHANTAL LAVOIE Tél.: 613-632-5200	Credit Terme	Net 30 Days
Instruction F-M	Delivery Route 5	Page	2
Product Description	Weight Oty U/M	PCS NB	Internal Use Only
DO NO	43	CMD EXP B/O	IN I S C OUT
4 ROUND 4140 HT 1 3/8 NS  R4140-138H  9252  1 X 20' R/L  AC13143-JG-2018/01/31	100.98 20.00 PI_\$CLB	C'X X	10
5 ALU SHEET .032 (20G) 5052-H32 NS FEAL-032 9714 2 X 4' X 8' AC13144-RY-2018/01/31	28.86 64.00 PI2_\$CLB	4.2	64
Conditions:  Total Weight (Lbs): 357.28  NIR: R-109516-6  All sold and delivered materials remain the property of "Acier Ouellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to respect the respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made a 25% restocking charge.	Total Weight (Lbs): 357.28 Ni small past in full, complete and cashed. All lost materials are at the buyer's expense, varranty is transferred by "Acier Quellette Inc." to the client. The buyer hereby accep stration charges of 2% per month (24% per annum) on all past due amounts over 31 at his choice to claim for the balance due or the repossession of the goods sold. All ged, cut or modified cannot be returned. All goods returned must be with our author	NIR: R-109516-6  see. The warranty offered by cepts to respect the r30 days. Any default in All claims must be made horization and are subject to	

Prepared By:

Verified By:

Delivered By:

Time

Customer's Signature

Date

3

D

Total (\$CAD)



Billed to

Shipped to

, Ontario,

DART AEROSPACE LTD

1270 , ABERDEEN ST. HAWKESBURY, Ontario, K6A 1K7

ACIER OUELLETTE INC.
935, Boul. du Hâvre
935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248

Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Date **Customer Nº** 

CLI0001056

2018/01/30

2018/02/01

PO038893

**Delivery date** 

Processed by Your order No Stephanie Dignard

Salesman

Carrier

Net 30 Days **OUELLETTE VALLEYFIELD** 

**Credit Terme** 

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Instruction F-M	Deli	Delivery Route	5		Page	PCS NB	8	-	Internal Use Only	se Only
Product Description		Weight	Qty	U/M	CMD	EXP	В/О	IN	I S	C OUT
1 TUBE MEC 4.000 OD X .120 NS	/	99.46	20.00	PI_\$PI		÷				
TME-4000120 10007						7		して		
1 X 20' R/L AC13141-MM-2018/01/31						25		9		
2 FLAT SS 3/4 X 2 1/2 SS304 RANDOM NS FSS-34212-V <b>8747</b>		76.50	12.00	PI_\$CLB		7		?		
1 X 12' R/L AC13141-MM-2018/01/31						128/4				
<b>3</b> FLAT SS 1/2 X 2 1/2 SS304 RANDOM NS FSS-12212-V <b>8302</b>		51.48	12.00	PI_\$CLB		7		}		
1 X 12' R/L AC13142-SM-2018/01/31	<	75				12'		•		

NIR: R-109516-6



## 935, Boul. du Hâvre Salaberry de Valleyfield (Québec) J6S 5L1 Customer N° CLI0001056

Shipped to   Shi
Date   2018/01/456-4248   Delivery date   2018/01/456-4242   Delivery date   2018/01/456-4242   Processed by   Processed by   Stephanie   Salesman   OUELLET   Credit Terme   Net 30 Da   Page   1     PCS NB
1
2018/01/ 2018/0 2018/0 P003889: Stephanic OUELLET Net 30 Da 1  Z O IN

All sold and delivered materials remain the property of "Acier Quellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Quellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Quellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.

		Prepared By :
		Verified By :
	V. 81 C	Delivered By :
		Time
Customer's Signature		
Date	16000	_
1		Total (\$CAI



Billed to

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

DART AEROSPACE LTO

1270 , ABERDEEN ST. HAWKESBURY, Ontario, KGA 1K7

Order - Sales

Copy

C000071813

ACIER OUELLETTE INC.
935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J65 5L1
Tél.: 450-377-4248 Mil: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mil: 514-336-4246 Ext.: 866-456-4242

Date Customer N°

CL10001056

Delivery date

2018/01/30

Your order No

PO038893 2018/02/01

Salesman

Processed by

Stephanie Dignard

Carrier

Net 30 Days **DUELLETTE VALLEYFIELD** 

Credit Terme

Product Description  1 TUBE NEC 4.000 OD X .120 NS	Weight	Qty	M/n	CMB	5 5			PCS N	PCS NB B/O
1 TUBE NEC 4,000 OD X .120 NS TME-4000120 10007	99,46	20.90	bl \$bi		0.00	0.00			
1 X 20' R/L HEAT: (NIK1663551 AC13141-MM-ZUIBFO1/31									
2 FLAT SS 3/4 X 2 1/2 SS304 RANDOM NS FSS-34212-V 8747	76.50	12.00	PI \$CLB		0.00	0.00	0.00	0.00	0.00
1 X 12' R/L HEAT 266000 W AC13141-MIA-2018/01/31									
3 FLAT SS 1/2 X 2 1/2 SS304 RANDOM NS FSS-12212-V 8302	51.48	12.00	PI_\$CLB		0.00	0.00	0.00		
1 X 12' R/L HEAT (334) AC13142-5N+2018/01/31						1000-100-1000-0-100-0-100-0-100-0-100-0-100-0-100-0-100-0-100-0-100-0-100-0-100-0-100-0-100-0-100-0-100-0-100-0			

NIR: R-109516-6



Order - Sales

Copy

CO00071813

111/1/1/1/1/	935, Boul, du Havre				-	
COLLETIES	Salaberry de Valleyfield (Québec) J6S 5L1	éber) J6S 5L1	Customer No	er No	CL10001056	
	Fax: 450-377-5696 Mtl: 514	Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242	Date		2018/01/30	
			Delivery date	date	2018/02/01	
Billed to			Your order No	fer Nº	P0038893	
DART AEROSPACE LTD	Snipped to		Processed by	ed by	Stephanie Dignard	3
1270 , ABEROFEN ST.			Salesman	Đ		
HAWKESBURY, Ontario, K6A 1K7	, Citalio,		Carrier		OUELLETTE VALLEYFIELD	LEYFIELD
	Att : CHANTAL LAVOIE 1	Tél.: 613-632-5200	Credit Terme	erme	Net 30 Days	
	Delivery Route 5		Page		2	
Product Description	Weight	M/n Ab		PCS NB	Internal	Internal Use Only
			CMD EXP	P 3/0	IN I S	C OUT
4 ROUND 4140 HT 1 3/8 NS R4140-138H 9252	100.98	20.00 PL\$CLB	0.00			
1 X 20' R/L HEAT: (243795) AC13143-JG-2018/01/31 5 ALU SHEET .032 (20G) 5052-H32 NS FEAL-032 9714	28.86	64.00 PI2 \$CL8	0.00			
HEAT: (1-65-2-2)  AC13144-RY-2018/01/31  SURCHARGE ENERGETIQUE  FRAIS_ENERGETIQUE		**	0.00			
Conditions:	Total Weight (LBS) : 1 357.28	357.28 NJ	IR : R-109516-6	6.6		
As sold and device at materials remain the property of "Acier Duellette (Inc." until payment is made in full, complete and started. At low materials are at the buyer's experse, the wreter'ty offered by "Acier Duellette Inc." to the cient. The buyer concly accepts to respect the forming duellette Inc." to the cient. The buyer concly accepts to respect the forming duellette Inc." to the cient. The buyer concly accepts to respect the forming duellette. The buyer concly accepts to respect the respect in the started in the buyer accepts to pay administration or ages of 2% per month (24% per annum) on all past, due and provide and annual part in the started payment by accepts to be payed annumber of the power annum of the goods and all the made in and permit to the payer. The charment provide and the power annumber of the goods and all the made in an internal payer. The forming the payer annumber of the goods and all the power and payer annumber of the goods and all the power and payer annumber of the goods and all the power and payer annumber of the goods and all the power and payer annumber of the goods and all the payer annumber of the goods and all the payer annumber of the goods and all the payer annumber of the goods and the goods are the payer annumber of the goods and all the payer annumber of the goods and all the payer annumber of the goods and all the payer annumber of the goods and annumber of the goods annumber of t	ent is made in full, complete and cashed, warran's is transferred by "Acter Questet, intration on ages of 2% per month (24%, ) at his choice to dram for the brainer of ages, cut or modified cannot be returned	All fout materials are all the buyer's expersa- te Inc." to the clent. The outer northy accer per annum) on all past, the arrount's treet is use or the representation of the groups used as use or the representation and the whith our author.	. The warranty offered by pts to respect the Pd Cajs. Any default in "dains must be made illiation and and subject to	ired by		

Prepared By:

Verified By :

Delivered By :

Time

Customer's Signature

3

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Total (\$CAD) Deposit Balance

1 352.63

1 352.63

0.00



Order - Sales

Copy

CO00071920

Billed to 1270, ABERDEEN ST. HANYKESBURY, Ontario, K6A 1K7 DART AEROSPACE LTD Shipped to ACIER OUELLETTE INC.
935, 80vl. du Hâvre
Salaberry de Valleyfield (Québec) 365 5L1
Tél.: 450-377-4248 Mti: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242 , Ontario, Date Customer Nº Salesman Processed by Your order No Delivery date CL10001056 Stephanie Dignard 2018/01/30 PO038893 2018/02/01

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Credit Terme

Net 30 Days

**OUELLETTE VALLEYFIELD** 

Carrier

	3
Product Description  1 ROUND ALU 1 5/8 6061-T6 RANDOM RAL-158-Y 5138  1 X 12' HEAT (201716738 AC13162-TH-2018/01/31  2 ROUND SS 1 303 RANDOM RSS-1303-Y 8519 2 X 12' R/L HEAT ( 232X	
Weight 29.23	Delivery Koute
<b>Qty</b> 12.00 24.00	J
mos la	
0.00 0.00	Page
PCS NB	1
P/0	
Z	1
Inter	
Internal Use Only S C	
only	
0,1	

NIR: R-109516-6



Order - Sales

Copy

CO00071815

Prepared By :

Verified By :

Delivered By:

Time

Customer's Signature

3

Total (\$CAD) Deposit Balance

496,25

0.00

496.25



Dart Aerospace Ltd. 1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada

Tel (613) 632-5200

### **PURCHASE ORDER** PO038893

ACI001-VC Supplier:

Acier Ouellette Inc. 935 Boul, Du Havre

Valleyfield QC

J6S 5L1 Canada Phone: 800 667 4248 Fax: 450 377 5696

PO No: PO Date:

Due Date:

1/31/18

**Purchase Order** Revision: **Revision Date:** 

Ship-To Contact:

Phone:

PO038893

1/29/18

JAN 2 9 2018

Via:

Items

Pymt Terms:

Ground Net 30

Freight Terms:

Special Comments:

Ship To:

1270 Aberdeen Street

Hawkesbury ON

K6A 1K7 Canada Phone: 613-632-5200

Extended Order Received Unit Supplier Due Line Quantity Quantity Balance Price (CAD) Price Status Date Description Part No Item Part. \$80.67 12 ft \$6.7225/ft M6061T6R1.625 6061T6 Round Bar 1.625 Firmed 1/31/18 12 ft : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR **ASTM B221 OR ASTM** B221 receive ft \$254.43 6 ft \$42,405/ft M6061T6R4.000 Firmed 1/31/18 0 ft 6 ft 6061-T6 Round Bar 4.000" : MATERIAL: 6061-T6/T651/T6510/T6511/T62 **ALUMINUM ROUND BAR** AS PER QQ-A-225/8 OR FEB 0 1 2018 AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ-DAS AA-200/8 OR AMS-QQ-A-11 200/8 OR AMS 4160 OR **ASTM B221 OR ASTM** 9-89 **B221** receive ft

				Items						E
Line tem	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity		Unit Price (CAD)	Extende Price
	M6061T6R1.000	,	Round Bar 1.00" : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ- AA-200/8 OR AMS-QQ-A- 200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft		1/31/18	20 ft	20	20 ft	\$2.5525/ft	\$51.
4	M6061T6R2.250	1		'Firmed	1/31/18	6 ft	(Q	6 ft	\$14.18666/ft	\$85.
			AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ- AA-200/8 OR AMS-QQ-A- 200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft							
5 :	M304R0.4375	:	304 Round Bar 0.4375 : MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276 NOTE: AISI 303 NOT ACCEPTABLE receive ft	Firmed	1/31/18	12 ft	12	12 ft	\$1.5325/ft	\$18.3
6 '1	M304R0.375	:	304 Round Bar 0.375 MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276 NOTE: AISI 303 NOT ACCEPTABLE receive ft	Firmed	1/31/18	24 ft	24	24 ft	\$1.188/ft	\$28.5
7 1	и303R1.000	: # # !	303 Round Bar 1.00 MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582 NOTE:304/316 NOT ACCEPTABLE receive ft	Firmed	1/31/18	24 ft	O ft	24 ft \$	\$8.0620833/ft	\$193.4
8 1	и303R0.750	: F A N	MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582 NOTE:304/316 NOT ACCEPTABLE eceive ft	Firmed	1/31/18 ;	<sup>9</sup> 6 ft	16 Of	96 ft \$	\$4.8507291/ft	\$465.6
9 1	//T-4140QT-R1.375	: ( 7 <i>A</i>	MT-4140 QT-R1.375 MAT'L: AISI 4130 QUENCHED & TEMPERED ROUND BAR AS PER ASTM 4140 QT OR ASTM	Firmed	1/31/18	20 ft	20 20	20 ft	\$9.3885/ft	\$187.7

FEB 0 1 2018

11 9-89

Line	1	Supplier		Items	Due	Order	Received		Unit	Extende
item		Part No	Description	Status		Quantity			Price (CAD)	Price
10	MT-4140QT-R2.250		AISI 4140 Q&T Round Bar : MAT'L: AISI 4130 QUENCHED & TEMPERED ROUND BAR AS PER ASTM 4140 QT OR ASTM 4142 QT	2	1/31/18	20 ft	O ft	20 ft	\$21.7605/ft	\$435.2
11	MT-A513-T- 4.000W0.120		A513 Seamless Alloy Steel Round Tubing 4"dia. x 0.120" Wall	Firmed	1/31/18	20 ft	0 ft 20	20 ft	\$19.35/ft	\$387.0
12	M1018B1.000X03.000		1010-1025 Steel Bar	Firmed	1/31/18	12 ft	0 ft	12 ft	\$10.195/ft	\$122.3
			1.000 X 3.000 : MATERIAL: AISI 1010- 1025 OR ASTM A36/A366/A569/A570 OR OR CSA G40-21 38W/44W/50W/60W/70W CSA G40-21 OR 38W/44W/50W/60W/70W	,	The state of the s	:	12			
13 ′	M303B1.000X1.000		M303B1.000 X 1.000 : MATERIAL: AISI 303 SS BAR AS PER ASTM A582 NOTE: AISI 304/316 NOT ACCEPTABLE receive ft	Firmed	2/7/18	12 ft	0 ft	12 ft	\$9.52/ft	\$114.24
14	M303B1.000X03.000		303 Bar 1" X 3" : MATERIAL: AISI 303 SS BAR AS PER ASTM A582 NOTE: AISI 304/316 NOT ACCEPTABLE receive ft	Firmed	2/13/18	12 ft	0 ft	12 ft	\$75.33/ft	\$903.96
15	M304B0.750X2.500		304 Bar .750 X 2.50  MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE AS PER ASTM A276 OR ASTM A240 NOTE: AISI 303 NOT ACCEPTABLE receive ft	Firmed	2/1/18	12 ft	12	12 ft \$	\$24.221666/ft	\$290.66
16	M304B0.500X2.500	: : :		Firmed	1/31/18	12 ft	OA	12 ft \$	513.468333/ft	\$161.62
17	M1018R0.250	P : 1		Firmed	1/31/18	12 ft	12	12 ft	\$0.16/ft	\$1.92
18 M	M1018R2.00	:	M1018R2.00 MATERIAL: AISI 1018- 1025 ROUND BAR M1010S20GA AS PER	Firmed	1/31/18	20 ft	0 ft	20 ft	\$9.6065/ft	\$192.13
		ħ A	MIL-S-7097 OR ASTM A108 eccive ft					FEB 0	1 2018	DAS 11 9-89

				Items						
Line	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
19	M2024T3S.125		2024-T3 .125 Sheet : MATERIAL: 2024-T3 ALUMINUM SHEET AS PER QQ-A-250/4 OR AMS-QQ-A-250/4 OR AMS 4037 OR ASTM B209 receive sf	Firmed	1/31/18	32 sf	0 sf	32 sf	\$17.35469/sf	\$555,36
20	M5052H32S.032		5052-H32 .032 Sheet : MATERIAL: 5052-H32 ALUMINUM SHEET AS PER QQ-A-250/8 OR AMS-QQ-A-250/8 OR AMS 4016 OR ASTM B209 receive sf	Firmed	1/31/18	64 sf	0 sf	64 sf	\$2.59375/sf	\$166.00

### **Order Notes**

**Procurement Quality Clauses** 

A005 right of entry

A012 chemical and physical test report

A016 personnel qualification

A017 raw material identification (as applicable)

A026 certification of material conformance

A041 quality management system

A042 dart notification by supplier

A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.



935, Boul. du Hâvre

Salaberry de Valleyfield (Québec) J6S 5L1

Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

### Quotation

SOU0081335

Billed to

DART AEROSPACE LTD

1270 , ABERDEEN ST. HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

606176B 2.5 x 4.5

Att: CHANTAL LAVOIE Tél.: 613-632-5200

Customer N°

CL10001056

Date

2018/01/19

Revision N°

0

Prices valid until

2018/01/26

Your Order No Processed by

Josianne Bourdon

Salesman

JOSIANNE

Carrier

**OUELLE SDV** 

**Credit Terms** 

Net 30 Days

Page

1

			Page	_			
Product N° and description	Weight	Qty	U/M	Qty U/M Price	Pcs Nb	Price	Amour
ROUND ALU 1 5/8 6061-T6 RANDOM RAL-158-V 5138	29.23	12.00	PI_\$CLB	12.00 PI	1.00	80.670	80.67
ROUND ALU 4 6061 76 RANDOM  RAL-4-V 5163  1 X 6' STOCK	88.58	6.00	PI_\$CLB	6.00 PI	1.00	254.430	254.43
COUPE A LA SCIE SCIE 1		1.00	UN	1.00			
ROUND AND 1 6061-516 RANDOM RAY-1-V 5141 1'X 20' STOCK	18.50	20.00	PI_\$CLB	20.00 PI	1.00	51.050	51.05
ROUND ALU 2:1/4:6061 TE RANDOM,  RAL-214-V 5145  1 X.6' STOCK  *COUPE A LASGIE	28.02	1.00	PI_\$CLB	6.00 PI 1.00	1.00	85.120	85.12
SCIE 1							
ROUND 55 7/16 304 RANDOM RSS-716-V 5779 1 X 12' R/L STOCK	6.13	12.00	PI_\$CLB	12.00 PI	1.00	18,390	18.39
ROUND SS 3/8 304 RANDOM RSS-38-V <b>5768</b>	9.02	24.00	PI_\$CLB	24.00 PI	2.00	14.255	28.51
ROUND'SS 1 308 RANDOM RSS-1303-V 8519 2 X 12' R/L STOCK	64.08	24.00	PI_\$CLB	24.00JN_\$UN	2.00	96.745	193.49
ROUND SS 3 //4 303 RANDOM 2 RSS-34303-V <b>5761</b> 8 X 12' R/L 2-3 DAYS	144.19	96.00	PI_\$CLB	96.00 PI	8.00	58.208	465.67

Date :

Next Page...



935, Boul. du Hâvre

Salaberry de Valleyfield (Québec) J6S 5L1

Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

### Quotation

SOU0081335

Billed to

DART AEROSPACE LTD

1270 , ABERDEEN ST. HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att: CHANTAL LAVOIE Tél.: 613-632-5200

Customer N°

CL10001056

Date

2018/01/19

Revision No

0

Prices valid until

2018/01/26

Your Order No

Processed by

Josianne Bourdon

Salesman

**JOSIANNE** 

Carrier

**OUELLE SDV** 

**Credit Terms** 

Net 30 Days

Page

2

			ruge						
Product N° and description	Weight	Qty	U/M	Qty	U/M	Price	Pcs Nb	Price	Amoun
ROUND 4140 HT 1 3/8 NS R4140-138H <b>9252</b> 1 X 20' R/L 2-3 DAYS	100.98	20.00	PI_\$CLB	20.00	UN_\$UN		1.00	1≣7.770	187.77
RGUND 4140 HEAT TREAT 2-1/4-RANDOM R4140-214H-V 4927 1 X 20' R/L 2-3 DAYS	270.40	20.00	PI_\$CLB	20.00	PI		1.00	435.210	435.21
TUBE MECH (A513: 4" OD X 120 N N 1 X 20' R/L 2-3 DAYS	0.00	1.00	UN	1.00	UN		1.00	387.000	387.00
FLAT CR 1 X 31 1018 RANDOM FCR-13-V 2727 1 X 12' R/L STOCK	122.40	12.00	PI_\$CLB	12.00	PI		1.00	122.340	122.34
SQUARE SS 1 SS303 NS CSS-1303 9512 1 X 12' R/L 1 WEEK	40.80	12.00	PI_\$CLB	12.00	JN_\$UN		1.00	114.240	114.24
PLAT \$5303 1 X/3 N 1 X 12' R/L 7-10 DAYS	0.00	1.00	UN	1.00	UN		1.00	904.000	904.00
FEATURE 3/4 X 2 1/2 SS304 RANDOM NS FSS-34212-V <b>8747</b> 1 X 12' R/L 2-3 DAYS	76.50	12.00	PI_\$CLB	12.00	IN_\$UN		1.00	290.660	290.66
FSS-12212-V <b>8302</b> 1 X 12' R/L	51.48	12.00	PI_\$CLB	12.00	PI		1.00	161.620	161.62
ROUND CR 1/4-1018 RANDOM RCR-14-V <b>5277</b> 1 X 12' R/L STOCK	2.00	12.00	PI_\$CLB	12.00	PI		1.00	1.920	1.92
ROUND CR 2 1018 RANDOM RCR-2-V 5319 1 X 20' R/L STOCK	213.60	20.00	PI_\$CLB	20.00	PI		1.00	192.130	192.13

Date:

Next Page...



935, Boul. du Hâvre

Salaberry de Valleyfield (Québec) J6S 5L1

Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

### **Ouotation**

SOU0081335

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST. HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att: CHANTAL LAVOIE Tél.: 613-632-5200

Customer No

CLI0001056

Date

2018/01/19

Revision No

0

Prices valid until

2018/01/26

Your Order No

Processed by

Josianne Bourdon

Salesman

JOSIANNE

Carrier

**OUELLE SDV** 

**Credit Terms** 

Net 30 Days

Page

3

Product N° and description	Weight	Qty U/M	Qty U/M Price	Pcs Nb	Price	Amoun
RODNO 4140 HT 1 3/8 NS R4140-138H 9252	100.98	20.00 PI_\$CLB	20.0QJN_\$UN	1.00	187.770	187.77
ALU PLATE 1/4 6061-T651 RANDOM PAL-146061-V 4245	18.30	5.00 PI2_\$CLB	5.00 PI2	1.00	85.870	85.87
1 X 6 1/4" X 96" STOCK SHEAR CUT SHEAR 2		1.00 UN	1.00			
ATCISHEET 1/8-2024-T3 RANDOM NS FEAL-182024-V 8603 1 X 4' X 8' STOCK	56.38	32.00 PI2_\$CLB	32.00 PI2	1.00	555.350	555.35
ALU SHEET '032' (20G) '5052' H62' NS FEAL-032 9714 2 X 4' X 8' 2-3 DAYS	28.86	64.00 PI2_\$CLB	64.00JN_\$UN	2.00	83.000	166.00
SURCHARGE ENERGETIQUE  FRAIS_ENERGETIQUE		\$				3.95

**Total Weight (Lbs)** 

1 470.43

**Important** 

This offer is based on availability and current pricing conditions that may be revised upon reception of the order.

TVH-13 · · 646.51

This offer is subject and conditional to credit approval.

Approuved and Accepted by:

Date :

Total (\$CAD)

Sub-total

5 619.67

4 973.16

### **Chantal Lavoie**

From:

Chantal Lavoie

Sent:

Friday, January 19, 2018 11:35 AM

To:

'Josianne Bourdon'

Cc:

Diane Baker

Subject:

quote

Good morning Josianne, Please advise price an delivery on mat'l.

6061t6 round bar 1.625" x 12 ft

6061-t6 round bar 4" x 6 ft

6061-t6 round bar 1" x 12 ft

6061-t6 round bar 2.250" x 6 ft

304 round bar 0.4375 x 12 ft 304 round bar 0.375" x 24 ft

303 round bar 1." x 24 ft 303 round bar 0.750" x 96 ft "

4140 qt 1.375" x 12 ft 4140 qt 2.250" x 12 ft

A513 round bar 4" x 0 120 wall x 12 ft

1018 bar 1" x 3" x 12 ft

303 bar 1" x 1" x 12 ft

304 bar 0.750° x 2.5° x 12 ft

1018 round bar 0:250" x 12 ft . 1018 round bar 2:00" 20 ft

.4140h round-bar 1.375 × 12 ft

6061-t6 bar or plate 0.250" x 6 250" x 8 ft

2024t3 slace#125" x 32 sf

5052h32 sheet 032" x 64 sh

Thanks
Chantal Lavoie
Purchasing Coordinator

DART AEROSPACE
T 1 613 632-5200
F 1 613 632-1053
E clavoie@dartaero.com
1 800 556- 4166
www.dartaerospace.com



### TEST REPORT

PO# 8C6923 DATE 02/23/17 PACKAGING:

1X19 1X18

PIECES 37
FT 888"
PDUNDS 4,416#

MO# 67260

OD: 4.000/4.011"

ID: 3.749/3.760" (REF: .120 WALL)

LNGTH: 20/24" R/L

MD- SAE 1020-AK

ASTM A-513-TYPE 5 pul

STRESS RELIEVE

CD. 4.000 .120 3.760

HEAT# NLK1663551 C .19 Mn .38 P .007 S .006 Al.051 Si .020 Cb .000 V .001 Cu .030 Mo .010 Ni .020 Cr .020 Tensile 85000 Yield 73600 Elong 19 HRb 90 HRb 90

COUNTRY OF ORIGIN: USA

### Acciaierie Valbruna s.a.A.







CERTIFICATO DI COLLAUDO **ABNAHMEPRUEFZEUGNIS** INSPECTION CERTIFICATE CERTIFICAT DE RECEPTION EN 10204 (2004), 3,1

36100 VICENZA (Italia) - Vaile delfu scienza, 25 z.i., Sinb., 39100 SOLZANO (Italia) - Via A. Votio, 4 Taleshon number , 0039 (2) 444968211

CTEME / PARTICULAR SAME VALERUNA CANADA ETD 8724 HOLGATE CRESCEA\* L5T 521-MELTON, CNT L5T 571-CA

Produitore: ACCIAIERIE VALBRUNA S.P.A.

State di termina: Hot rolled Descared Arinea ed Hot rolled

Aviása di Specizione: Q-VIII4040055

BUILD'S WARRAGENERS SYSTER CHRISHING WE LLOWER RESISTER

Driffne nr. 411005036 Stock - Cartada.

Tipo di Elaborazione: E+AOD

Certificato nr. MEST618656/2014/

Contemp draine by El1/1012062

Marchio o Pagorica: an train In the Factor (2004) of the

AMS 5539 H \$30400 A ASMF SA182 2013 530403/00 A (0)

Specialitie: Arramanger: Pagastrases: Corpores VSI 0 304/304L A AMS 5647 J \$30403 A ASME 5A193 2013 68 CLASSI (1) ASME SA479 2013 S30400/03 A (4)

ASTM A262 2013 PRACTICE E ASTM A320 2011A B& CLASS1 MIL-S-862 8/F 30M304L OC)-5-753 F 304-3641 A

AISC 304/3041 AISC 304/30AL A

AMS-QO-S-763 C 304/30AL A

ASME SA276/2013 S30400/03 A (2)

ASTM ATT 2012B S30400/03 A (S)

ASTM A276/1013A S30400/03 A

ASTM A478 2001 S30400/03 [6] NACE MR0103 20° 0 \$30400/03 A

ASMF SA320 2013 68 CLASS1 [3] 122AJ 58 A1105 CE: A MTZA CONDÓLDEZ SODS A1EA MTZA ASTM A479 2013A 530400403 A NACE MR0175 2009 530400403 A (7)

IUT SECTION I PT A 2013 EDITION

11 SECTION I PT A 2013 EDITION

33 SECTION I PT A 2013 EDITION

33 SECTION I PT A 2013 EDITION

35 For products machined density from bar controllate

16 Chemical analysis only.

17 Technical circular 1:2011 Published 2011 06 14

(0) For products machined directly from bar refer to ASME SA679. (2) SECTION 1: PT A 2613 EDITION (4) SECTION 7: PT A 2613 EDITION (3) IN ASTIMA 479 (7) ANSIMAGE MAD1757SO 15156-3, second addition (2009-10-15)

Ofiania: 304/304L

AISL Talleranza: ASTM A484-14 TABLE 5 Oggetto Dimension: - In D----0020 Flat 2,5000 x 0.7500

Peruseneture: 304/304L ghezzu Lengo Lengo 144/155 266000 2.967 426903270

TEST ALLO STATO DI FORNIYURA fest on anivery collection. Priceiving and referb Spervamento POR INDIANA Affunciamento Stricione Residenza Dunbara. tym ( am Tentario I •E Mp 0,2% HB N.S. % 30 75 40 50 140 min Valor richlesh max 115 235 12.5 46 91 52 70 185

		_				
TEST			mia	max		
Α	Grain siza for ASTM E112			ì	6	

### Analisi chimica

GRIBER MAN	me+ 0.7(10	1,0N	760	18,00 30,00	1,00		8,90 18,50			0,0270 0,020	8,100	:	:	;
	C %	Si %	Mn %	C/ %	Mg %	Cu %	PM: %	Co %	P %	S %	N %			
266000	0,020	0,41	1,64	18,24	0.45	0,31	8,09	0,119	0,032	0,027	0,093			

Produced without class I-II Ozone deplating substances. Solution heat treated free from continuous carbide metwork.

Micro and macro erch test: OK

Intergranular corrosion rost per ASTM A262 pract. E. ok. Absence of gradua at 20 x magnification after bend tost.

Reduction ratio = 25.7 . 1

Annealing temperature 1940°F for 1 25/water.

Vicenza,17/12/14 Il callsudatore di stabilitienti / del Wemssachtersandigg/ Marky (rapediar / L'agant d'usine M. Rizzosto KLA-R Was MCC7)

Paging - 1 di 2

17

### Acciaierie Valbrunas, A.







руация манафорфа" (МЕТКИ ССЯПРИВ ФО LLOVES REGISER



CERTIFICATO DI COLLAUDO ABNAHMEPRUEFZEUGNIS INSPECTION CERTIFICATE CERTIFICAT DE RECEPTION EN 10204 (2004) , 3.1

36100 VICENZA (Italia) - Vials det a scienza, 25 2.1 Siab : 39100 BOLZANO (Italia) - Via A. Volto, 4 Telaphan number : 2039 (0) 444968211

Clieme / Investor Personal Communication VALBRUNA CANADA LTD 8724 HOLIGATE CRESCENT LST 521-MILTON ONT EST 521-CA

Prodution: ACCIAIERIE VALBRUNA S.P.A.

Sizes di terroura: Hos rolled Descaled Anniabled Hol rolled

Material is DEARS Compliant

Some state additionability table to condition, inchesses to gestion between your 1 things with 1 for against the inchesses the national substances in a constant or the inspectation. It is not only on the operation of the operation of the operation.

Awiso di Specizione: D-VI34040056 Letrangemento ej la EL

Ordine ar. 411005038 Stock - Canada hyarmy new Communic

Toe di Elaborazione: E+AOO

Certificato nr: MEST618656/2014/

Continue ardine et: E114C120S2

Marchie di Pablinca. Zazze des Letermotos, Tripi asso Sigli avil' uno mossessi

Puripone del Collandatore:



Controllo vienna e demensionalis: santista lei essigenze lesconours una supressora mes biorisamina Viene messale messonement demos sontation.

Melied and manufactured in valy. No welding or wold repair.

No welding or weld repair Material hop from Mercury contamination

Controllo, antimoscolarsea: OK versos relangerisars, spontes regreche mismorig trians propried OK Con ette anamatenge les such

We gottake that the tirished product is shedges for radioactive constraints on through Portal System when it traves the production plant.

The Dustiny Management System is Contribed add. Presourc Equipment Originia (97/33/50) Annex 1,6,4,3 by TUEV and LLOYD' S

Any act of tampoung, mochicanon, alteration, countertexing and/of laterication and/or any pline action which model is the contents of this test destillate shall content of applicable curh and currinal lows. Accorded Yelbruna shall protect us highly and interests option any compotent court, authority and jurisdiction.

The supplied product conforms to requirements expressly requested by the purchaser and conforms to requirements specified by confided norms and pendends. Should the product be used as more severe critical and/or in any case different applications then those the material's generally intended for, any different another supplies to the product by the Purchases. Accessed Valorina SpA shall not be responsible for any improportuse of the

Q.C. Reviewed SROZ 27/15

Vicenza,17/12/14

1

il collauxistore di stablemento I del Weinssauturestinition (Poms monster I L'agent a' unine M. Ruzzon (g. p. U.S.)

Pagma - 2 di 2

(O. 71813

VAS Pennsylvania 289 Mitthin Orive Wrightsville, PA 17368

## METALLURGICAL

6870 Highway 42 East Ghent, KY 41045-9615 (502) 347-6000

TEST REPORT

Cextificate: 313587 w Hail To:

Ship To:

Cuetomer

Your Order

Corrorion: ASTE A262/16a A 180Bend-O

Pinich

Steel - 504/3046

Date:

1/19/8017

Page: 1

ASTH A240)16a, A480/16b, A666/15; ASHB SA240/15, SA666/15 CHEM ONLY ON FOLLOWING ASTN: A176/16, A479/18, A484/15, A312/16 CHEM ONLY ON FOLLOWING ASTN: A176/16, A479/18, A484/15, A312/16 CHEM ONLY ON FOLLOWING ASTN: B312/13, BA479/13 BA479/13 AMS S511H/S51JJ MARK; MIL-S-56931A/03, BA479/13 MIL-S-40438 NACE MR0175/150 15116-3:2009 A, MR0103/07,0087660-A X MAG PERM MIN, SOLUTION ANNEAL THMP 1900P, WATER QUENCHED PRODUCT DESCRIPTION.

SAE AMS 00-5-763

MAS Order:

REMARKS: Material is Free of Radioactive Contamination Mat'l is Free of Mercury Contamination. No weld repairs. Product Rig.by a Quality Mgt. Sys. in Conf. w/ISO 9001 Steel Making Process: BAT, ADD, & Cont. Casting EN 10204:2004 3.1; RoHS 1 & 3 Compliant \*Wolted & Manufactured in the USA/ Wat'l is DFARs Compliant

CHEMICA ۲ 01434L GC b SATVA H 69 2K1049 . 5000 60.0000

30 SPERTO Product id

Plate

Skid # Thickness

Width

Weight

-----Length----

Mark Pieces Commonity Code

1,270

PLATE

144.00

Leb Accreditation Bureau, ISO/IEC 17025, Certificate# 12323 Chemical Analysis per ASTN A751/14a

4346 욵 20 G 8 I S .0109 .2715 GM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan) 16.0435 CR & CU % -4245 ¥ 1.7960 YO S . 3635 H BEBO ' S IR 8.0625 Ą .0325 ij. 49 .0015

### SMC HANICA H M 70 0 区と Н 15 ÇQ

01434L GC	Product Id# Plate#
01434L GC	10 H + 17 A + 1
7 2	и <b>е</b> рь
F T 92.71	UTS ZO
10 10 10	200 .2% vs 200 klong xs: %-2"
67.10	C BLONG T
78,00	% Hard
67.23	R 0 € 2

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the analysis on the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirely, without the written approval of NAS.

Dept. Mgr. Technical

KRIS LARK

7/19/2017

### CERTIFICATE OF TEST CERTIFICAT D'ESAIS

Page 01 of 03

Certification Date 31-JAN-2018

CUSTOMER ORDER NUMBER NUMÉRO DE COMMANDE DU CLIENT

AC00013143 PART NUMBER/NUMÉRO DE PIÈCE Invoice Number S702883

SHIP TO: ACIER OUELLETTE INC. ACIER OUELLETTE INC. SOLD TO: DIVISION SALABERRY DE VALLEYFIEL DIVISION SALABERRY DE VAEXPROMEELD VENDU À: 935, BOUL. DU HAVRE 935, BOUL. DU HAVRE SALABERRY-DE- VALLEYFIELD QC J6S 5L1SALABERRY-DE- VALLEYFIE OC J6 4140/A142 HR HT BAR STRESS FREE 269/321 BHN Description: Line Total: 102 LB 1-3/8 RD 1 200 ITEM: 506428 243795 HEAT: Specifications: ASME SA193 GR B7 01 ASTM A434 GR BC 16 ASTM A193 GR B7 16 ASTM A29 15 ASTM A962/A962M SEC 16 JDM AO QL-2 ASTM E112 13 ASTM A304 16 ASTM A322 13 ASTM E709 15 ASTM E10 15 ASTM E45 13 ASTM A370 16 ASTM A751 14 **ASTM A388 16** API 6A/ISO10423 PSL3 ASTM A388/A388M (S1) 16 EN 10204 3.1 MIC 6016/2016 ADD 10 16 MIC 6016-16 16 CHEMICAL ANALYSIS -----CR NI MO S SI P MN C 0.23 0.011 1.05 0.18 0.013 0.32 0.421 0.98 V AS NB В TI SN CU AT. 0.0036 0.0001 0.008 0.008 0.40 0.012 0.026 H CO CA SB 0.0005 0.001 0.0001 0.0090 RCPT: R383318 COUNTRY OF ORIGIN : ITALY MECHANICAL PROPERTIES \*RED HARDNESS ULT TEN \*ELONG YLD STR IN AREA BHN IN 02 IN KSI DESCRIPTION KSI 315 52.0 146.0 16.5 131.0

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcrites du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contact with mercury while in our possession. Par les présentes nous certificos que le matériel couvert par ce rapport renconne les specifications décrites ci-

Junas Kreskreis

MANAGER QUALITY ASSURANCE GÉRANT DE L'ASSURANCE QUALITÉ CERTIFICATE OF TEST CERTIFICAT B'ESAIS

CO. 71813

CUSTOMER ORDER NUMBER NUMÉRO DE COMMANDE DU CLIENT PU, +1813 Page 02 of 03

Certification Date 31-JAN-2018

Invoice Number S702883

### PART NUMBER/NUMÉRO DE PIÈCE

	A	CIER	OUELL	ETTE	INC.				A	CIER	OUELLE'	TTE II	NC.	
SOLD TO: VENDU À:	D	IVISI	ION SA	LABE!	RRY DE	VALLI	EYFIE	LD ):	9	35. B	ON SAL OUL. D' RRY-DE	U HAVI	RE	ALLEYFIE QC J
Descri 1-3/8 HEAT:	RD X 243	20' 795	R/L			ITEM:	5064		EE 2	69/32: Line '	1 BHN Total:	102	LB	
END-QU	ENCH 2	HARI	Jenabi 4	5177 5	(30MI)	7	8	9	1	0 1:	1 12	13	14	15
58	58	58	57	57	6 56	56	55	55	5	4 5	3 52	51	50	50
16	18	20	22	24	26	28	30	32						
49	49	48	47	46	45	45	44	43						
					UOM SMPL#1				AVG		% SHEAR	LAT EXPN	DESCI	RIPTION
CHARPY	6	8 F	LON	G	78.0	83.0	87	. 0	82	.7				
CLEANL	INES	S												
			A			В			С			D		
		THIN MAX	THI	CK	THIN	THIO	CK	THIN MAX		MAX	THII MAX	P	THICK MAX	
					1.5					0.0			L.O	

STRAND CAST VACUUM DEGASSED
MATERIAL IS FREE FROM MERCURY CONTAMINATION
NO WELD REPAIR PERFORMED ON MATERIAL
ULTRASONIC: YES
THERMAL TREATMENT: OK
AUSTENITIZE 1616 DEG F WATER X 122'
TEMPERED 1166 DEG F AIR X 143'
STRESS RELIEVED 1094 DEG F X 143'

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. Thes informations of that themselves due certificat decreases du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. /Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

JOANNE DESPRES

Material did not come in contact with mercury while in our possession./Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

Page 03 of 03

MANAGER QUALITY ASSURANCE GÉRANT DE L'ASSURANCE QUALITÉ

### CERTIFICATE OF TEST CERTIFICAT D'ESAIS

Certification Date 31-JAN-2018

Invoice Number S702883

CUSTOMER ORDER NUMBER NUMÉRO DE COMMANDE DU CLIENT

PART NUMBERSTATER UDLA PECE INC.

SALABERRY-DE-

ACIER OUELLETTE INC.

DIVISION SALABERRY DE VALLEYFIELD

DIVISION SALABERRY DE VALLEYFIEL

935, BOUL, DU HAVRE BOUL. DU HAVRE

J6S 5L1SALABERRY-DE-VALLEYFIE VALLEYFIELD

SOLD TO:

QC J SHIP TO:

WENDLEADTION: 1-3/8 RD X 201 R/L

4140/4142 HR HT BARXERONESE FREE 269/321 BHN

Line Total: 102

243795 HEAT:

ITEM: 506428

OUENCH WATER TEMP: BEFORE 86 DEG F AFTER 108 DEG F

MACRO: OK

MECRUL: UK

COMMENTS

red. ratio = 60

JOANNE DESPRES

forme Lespesis

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. Act informations ci-haut-mentionnées sont transcrites du certificat d'essais du manufacturier après vérification de l'état complet des specifications inscrites are le cortificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certificous que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

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Material did not come in contact with mercury while in our possession/Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-

> MANAGER QUALITY ASSURANCE GÉRANT DE L'ASSURANCE QUALITÉ

PG. 71813

## 浙江永杰铝业有限公司

OATTOO WALLEANTY SEGREA SPACETRO 浙江永杰铝业有限公司

# Zhejlang Yongjie Aluminum Co., Ltd.

Jiangdong Industrial Area, Xiaoshan Economic and Technology Development Zono, Hangzhou, 311222, China VM 3

Invoice No.: YJ179308-2 Date: MAR. 8, 2017

MILL TEST

2116 LINWOOD AVENUE, FORT LEE, NEW JERSEY 07024, USA

TEL: 201,944.2200 X 123/ FAX:201,944.2228

BHIPPING MARKSININ

EMPIRE RESOURCES,INC

Peckag 158-1 158-3 R153727 159-8 159-7 R153727 159-2 R153728 158-5 158-2 160-6 R153741 160-2 R153741 159-9 R163727 159-6 R153727 159-5 R153727 159-3 R153727 159-1 R163728 160-5 | R163741 180-4 R153741 R153727 R163727 R163727 R153727 R163741 PONO. R153727 R163727 R153727 R163727 R153727 R163727 217020034-2-2 017020303-1 017020305-4 017020133-4 017020281-1 217020621-1 017010101-2 017020474-1 217020865-2 017020324-2 017020303-2 Heat Number 1-85-2-2 2-80-6-1 2-90-5-2 1-62-4-2 1-31-5-2 2-90-5-4 2-80-5-3 1-34-2-1 1-31-5-1 1-34-2-2 1-31-5-5 Alloy/ Temper AA5052 H32 0.032 36"C AA5052 H32 AA6062 H22 AA5052 H32 AA5052 H32 | 0.0831"48" 144" | 0.082 AA5052 H32 | 0.063"\*46"\*144" | 0.062 AA5052 H32 | 0.063"\*48" 144" | 0.062 AA5052 H32 AA5052 H32 AA6052 H32 AA5052 H32 | 0.080\*\*48"\*120" | 0.079 | 2.078 AA6052 H32 AA5052 HD2 AA6062 H32 AA5052 H32 AA5052 H32 | 0.063 48 120" | 0.062 | 2.025 AA8062 H32 | 0.083"\*48"\*120" | 0.082 AA5052 H32 | 0.083\*\*48\*\*120" | 0.082 AA5062 H32 | 0.063 "48" 120" | 0.062 AA6062 H32 AA6052 H22 AA5062 H32 AA5052 HJ2 0.080\*\*48\*\*120\* 0.063"48"144" 0.062 0.080"\*48"°C 0.083"\*36"\*C 0.083 0.080"48"4C 0.040"\*48"\*C 0.125"\*46"\*C | 0.124 | 4.592 | 4.626 | 0.070 | 0.260 | 0.010 | 0.010 | 2.430 0.080"\*46"\*C 0.12548\*\*C 0.083"\*36"\*C 0.125"80"C 0.0801848"C Specification 0.125"48"°C 0.125"±46"\*C Actual Thiokn 0.080 0.050 0.040 0.124 4.417 4.468 0.070 0.200 0.010 0.010 0.079 0.090 0.124 4.387 0.126 4.424 4.480 0.080 0.240 0.010 0.010 0.080 0.126 4.462 0.031 0.083 3.452 727 2.168 2.190 2.053 2.207 4.335 4.636 4.136 4.665 4.617 3.347 1.813 1.878 0.050 0.220 4.448 2.168 2 170 2 262 0,060 N.W. (T.W) 1,813 1.878 0.050 2.152 2.282 4.516 4.674 2.280 G.W. 4.372 2.266 0.060 4.498 0.080 0.240 0.010 0.010 3.612 2.104 2,269 0.086 0.220 0,001 4.178 0.060 4.802 0,060 4.678 0.060 3.408 0.090 2.120 0.050 4.424 | 0.080 | 0.230 | 0.010 | 0.010 | 2.460 0.080 0.220 0.070 0.210 0.080 0.120 0.279 0.018 0.046 0.070 0.220 0.000 0.220 0.090 0.250 0.008 0.080 0.070 0.220 00 0.230 0.230 0.280 0.220 0.220 0.220 0.220 0.220 0.220 0.010 0.010 3 0.010 0.010 0.010 0.010 0 001 0,001 0.010 0.010 2,420 0:010 0.010 2.440 0,001 0.010 2.840 0.001 0.010 2.640 0.010 0.090 2.540 0.010 0.010 2.400 0.010 0.001 C 0.010 0.010 0.010 0.010 9.320 0.010 2.700 0.010 2.640 0.010 2.640 0.010 0.010 2360 CHEMICAL COMPOSITION, 2.320 2.700 Mo 2,300 2.380 2.300 2.320 2,380 2.630 2.390 2.510 Ξ 1 ŀ B. B 1 0.003 0.010 0.010 0.010 0.010 0.008 0.010 0.008 0.010 0.010 0.015 0.190 98.74 0.010 0.019 0.190 86.76 0.010 0.008 0.003 0.010 0.020 0.230 86.87 33.4 26.0 0.006 0.006 0.000 0.010 0,010 0.010 21 0.007 0.020 0.019 0.190 0,019 0.190 96,82 0.012 0.170 97.20 0.012 0.170 97.20 0.015 0.180 0.020 0.200 97.07 0.020 0.200 87.07 0.020 0.020 0.190 97.12 0.010 | 0.170 | 97.10 0.011 0.160 97.08 0.015 0.180 88.74 0,011 0.170 97.07 0.019 0.190 0.019 0.190 0.010 0.170 98.84 0.012 0:170 97.19 0.012 0.180 0.015 0.180 86.80 ≓ 0.190 0.190 97.12 07.12 96.82 96.62 98.82 97.01 97,15 31.2 33.4 33.4 33.4 33.4 31.9 31.9 32.6 33.8 32,5 33.2 31.6 32.3 32.3 33.2 34.4 32.1 32,1 32.1 32.2 31.9 34.1 MECHANICAL 26.8 25.8 24.7 26.0 25.8 25.8 26.8 24.7 26.3 25.8 26.0 26.0 26.4 24.9 24.8. 24.9 26.8 26.7 28,0 24.8 26.1 24.9 (K3) Elongal 12.6 10,0 11.0 10.0 8.0 8.0 12.5 10.0 11.0 8,6 8.0 10.5 8.0 8.0 9.5 9.0 8.0 8.0 7.5 9.5 9.5 8.0 9.5

HATERIAL CONFORMS FOR ALLOY 8082,132 ALUMINUM AЗSOCIATION STANDARDS, ASTM 8208-10, AMS-QQ-A-2808B AND AMS-QQ18L AND MATERIAL IN ALLOY 3083, H14 CONFORMS ALUMINUM ASSOCIATION. STANDÁRDS, ASTMP\$209-10, AMS-QQ-A-280/2 AND AMS 4098K, COUNTRY OF WELT AND MANUFACTURE IN CHINA. 6



CO. 71920

## Service Center Metals

Prince George, VA 23875 5850 Quality Way

DART

# CERTIFIED INSPECTION REPORT AND TEST RESULTS

348551 DIE NUMBER

MANUFEST NUMBER

CUSTOMER PART HUNDLY VIM-643845 CUSTOMER PO

Quantity Certified

996 lbs

34 pcs

RD0011

RD0011 DATE OF SHIPMENT

D.Schroeder (Canada) ESPERSON 10/26/2017

WILDALLENDEW

6061-T6511

CERTIFICATION DUR DROEK NUMBER ASTM-B221-14 StencilCont 933547 131

SPECUFICATION

AMS-QQA-200/8 Rev-A

Lightning Rod Tite 1.625 +/-.004

is eluminum products supplied by Senice Center Metals, LLC contain no functional mercury. Neither mercury not its compounds are used in the manufacture of abundum to functional out in the content of the best of our knowledge, contacted any source of mercury.

CM is ISO 9001-2015 certified

This product is RoHS-2, REACH, and DFARS compliant.

3 (201716738	Tests Lot No.
10/19/17	Test Date
min max 49.40 52.60	Ultimate Tensile Strength (KSI)
min max 45.50 48.90	Yield Strength (KSI)
min max 11.50 17.30	Percent Elongation

	,	
10/19/17		
49.40	8 8	Strength (KSI)
max 52.60		KSI)
min 45.50	•	(KSI)
max 48.90		(I)
min 11.50		Elon
min max 11.50 17.30		Elongation

hemical Composition for Aluminum Alloy 6061	ompositio	n for £	lumin	um Allo	y 6061									
ast #	Lot No.	Alloy	la	Fe	lÇi	Mn	Mg	ĺŌ	20		12	Ott	Others Total	Mell Source:
1E1709298 201716738 6061 1J170928K 201716738 6061 1J170928S 201716738 6061	201716738 201716738 201716738	6061 6061	0.70 0.74 0.73	0.37	0.32 0.32 0.32	0.11 0.10 0.11	0.87 0.92 0.90	0.10 0.11 0.11	0.05 0.07 0.06	0.03 0.03	97.47 97.32 97.33	0.05	0.15	United States of America United States of America
A products are melted and extruded in the USA	re melted and	extrude	d in the I	ASA					3	2	The south			Print Date: 10/26/2017



740 Imperial Road North Gueph, ON N1K1Z3 North American Stainless Canada Inc.

# METALLURGICAL TEST REPORT

6870 Highway 42 East Ghent, KY 41045-9615 (502) 347-6000

Certificate: 276092 .

Customare 007080 003

Date: 3/28/2017

Finish: CO Steel 101

Correstons

Red Ratio: 69.6 :1

PRODUCT DESCRIPTION:

Your Orders

MAS 611

MAS Order: IN 0244860 03

ROUND BET, AMERICAN COLD Draw UNB 30300, ARTH A582/12 MM 10204 3.1, AME 5640V TYPE 1, QQB-7648 CONDITION A 801/0710H AMERICAN TEMP 1900F MIN EF 10204 3.1, ASTN A484/15

CONTLINE N/MEGGINARCHIES OF DEAR 352,225-7009 ET DIRECTIVE REMARKS:

2011/65/EU.ROME. EAF+AOD+CC. NO WELD REPAIR. HELTED AND 1970 IN DIA PERS PROM MESICURY AND LOW MELVIEW ALLOY CONTAMINATION

0

CHENIC 232X Hant Grant Product Id BX4098 0 × H ×× ALY 9 9 00 14 Brid # Dismeyer n ta .0397 . 3255 æ CM(Country of Melt) 1.0000 % 33 8 .0875 . 3080 8180 17.0705 2 % E8(Spein) U8(United States) ZA(South Africa) JP(Japan) Weight 3 .2690 929 -----Length-----1.8330 Lab Asserditation Bureau, 180/12C 17025, Cortificates [2323 70 % . 2685 144.00 Mark .0422 w Pieces Commodity Code 77 % 8.5350 Chemical Amalysis per ASTM A751/14s .0250

### とまり HANI O > 뻥 70 0 10 H **70** 12 H tri 0

	BI4098 0	Froduct Id
	7 16	902
	N L 156.0	Mo.
	43.00	.140
	84.00	CES SECO
	58.00	NA.
	48.00	Slog & 4D

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the best methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Dept. Mgr. Technical

1

KRIS LARK

3/22/2017



Trentwood Works - Spokane, WA 99215 Phone: (800) 367-2586

### CERTIFIED TEST REPORT

Serial Number 4462724

CUSTOMER PO NUMBER C74167-1	t; 174A	ORK FACKAG	E: CU	STOMER PAR	T NUMBER:			RUNLOAD: 917/20	GOVY O	ONTRACT NUMB	ER:	
KAISER ORDER NO: 1234496-1		SHIP DATE		2024 a	CLAD: ALCLAD	TEMPER	-	Respect by		ON;		
WEIGHT SHIPPED: 3196 LB	37 PCS I		06676		GAUGE: 0.1250 IN	8:750 M		48.000 IN		144.000 IN	1	(3657.6 MMA)

MHU 2114184: LOT-219563B4: 37 pieces;

1184546

**Certified Specifications** 

₩ AMS4462 CMMP 019/RevD

✓ AMS-QQ-A-250/5/RevB V CMMP 025/RevV

ASTM B 209/Rev14

Test Code: 1505 Lot: 219563B4

Cast 403

Drop 97

MN

0.57

**Test Results** 

Ingot 4

CR

0.01

Melted in USA

(ASYM E8/8557)

(EN 2002-1)

Tensile: Temper Т3

Dir / # Tests LT / 2 (Min:Max)

0.20

Ultimate KSI (MPA) 64.2: 64.6

Yield KSI (MPA) 44.0:44.2

Elongation % 20.0:21.7

0.01

(303:305)

T1

0.02

(ASTM E1251)

SI Chemistry: Actual(wt%) 0.08 FE CU '

4.6

MG 1.3

(443:445)

ZN

0.12

0.01

ZR RAHTO TOT 0.05

ALLOY LIMITS

ZN ZR OTHER MN MG CR TI ٧ MAX ŞI FE CU 2024 MIN(wt%) 0.00 0.00 3.8 0.30 1.2 0.00 - 0.00 0.00 0.00 0.00 EACH 0.05 TOT 0.15 0.05 0.05 MAX(wt%) 0.50 0.50 4.9 0.9 1.8 0.10 0.25 0.15 1230 Liner Alloys EACH 0.00 0.00 0.00 0.00 0.03 MIN(wt%) 0.00 0.00 0.00 0.00 0.00 0.00 0.30 0.05 0.03 0.03 TOT 0.00 MAX(wt%) 0.10 0.05 0.03 0.05 E0.0 0.25

Aluminum Remainder



CERTIFIED TEST REPORT

Scrial Number 4462724

Trentwood Works - Spokane, WA 99215 Phone: (800) 367-2586

### CERTIFICATION

Keber Atuminum, Yrentweed Works, is ISO 9001, ASD100, and ISO 14081 certified, and headly certified that an internal ahypped under this order.

\* head basen inspected, rescod, and ison do be its conference with the requirements of this specifications, indicated herein.

\* All one cognitives are confirmed and continues are conference applicable specifications. For material three transportations are transported and applicable specifications are requirements of properties are all three confirmed in the United States of Admics or a qualifying country per DFARS 255,72-100, was manufactured in the United States of Admics or a qualifying country per DFARS 255,72-100, was manufactured in the United States of Admics or a qualifying country per DFARS 255,72-100, was manufactured in the United States of Admics or a qualifying country per DFARS 255,72-100, was manufactured in the United States of Admics or a qualifying country per DFARS 255,72-100, was manufactured in the United States of Admics or a qualifying country per DFARS 255,72-100, was manufactured in the United States of Admics or a qualifying country per DFARS 255,72-100, was manufactured in the United States of Admics of accusion of ACTMIC States of Admics of accusion of ACTMIC States of Admics of accusion of ACTMIC States of Admics of accusing the Admics of Admics of the Administration of Act of the Dedd-Frank Accusing of United States of Administration of the Administration of the Administration of Admi

Page 2 of 2

### Customer MACRO SICH SUN TIENER TS4 CHBFA All bundles listed befort were produced using after from Heat 75065500 is easyd by GERDAU-MONROE and were completed from Beton Blood Job 809248. Eaton Steel Bar Company Inspection Certificate 1622162 Burds lags with Ealern Sted idon of one micromosa the stead grade, heat, purphase order number, product description and weight. Tested and centred in accordance with Ealern Steels Clusby Manual CM-00001 / Rev 3 / 1226/13 HOLLYDROT THE STIEMEN Cleanliness PARTENET MOLLON Atten Angewer 22/24 Inch from Quenched End 24/36 Inch from Quenched End 25/36 Inch from Quenched End 12/36 Inch from Quenched End Aliminum Silicon Eulfur Description Tennile Strength in 255 Unice Vield Strength in PSJ Unice Percent Ilongstion Report meero etch xasulta. MICTOGER Percent Reduction in Area Sringil Surface 16/16 inch from Quenched End 18/16 inch from Quenched End 20/16 inch from Quenched End 3/36 Anch Eron Quanched End (Description Dianeter Edeal Diamater ביון למוט לפין 12/16 Inch from Quenched End 11/16 anch from Quenched End 10/16 inch from Ocariched End 5/16 inch from Quenched Brid 8/36 Inch From Queriched End 1/16 anch from Quenched End 5/16 Jhrh from Ocasched End 1/16 Inch from Quenched End 1/16 anch from Quenched End Mangarene Description 206280 POP 15-Feb-2017 SAUD ONL 2 3500 - 2 2019 Customer PO 0.0310.0 0.00200 21.49 124900 343700 444 Value Ų1 yii dh Α. 47 57 ψī 5.7 ų, M un P \$1139 rev 004 3 5,10 PMGT PMGT 4 Date S S 3 III E H EUR C PHCT Units MRC EEC E.C. HET EUC. HE S M Main Company MEGTA CATAL Gurant real \$956161-220 Tag Number TIME AT TEMP KASSTER ST A434-904-BC A GNZL MUSERY TRAPER TONP PERCENT TM ASTM Standard RED MATIO NATION COMMEN 291210A Cuetomer Description Melted in Country Solled in Country Reduction Ratio Reported Mittontrocture Time at Temperature Quench Media Requirements Temper Temp in Pohracheit Austehitian Temp in Pahrecheit Stress Relief Temp in Pahrecheit Percent Tempered Martenette Magnetion in Cause ASTMA BC Trasile and Yaeld properties 3 2-114 HR RD 4140/42MM 24h SBQ QTSF FG MST Rem Description City Units EN 10204:2004-3.1 2451210/2314250 16CO - 1700 531 - 25CO 8 - 30 Report PAR/O - 955 CONFORMS CONFORMS \$0 - 100 CONMUNICA Valle? Valleye 16.90 Valles MSU USA 딯 PAGP DECLE ALL O PEGF 13 ឮ

Thomas Snature Corporate Metallurgist

Created on 15-heb-2017

We hereby can'y the above to be in conformance, and a true copy of data represented in company records. This after was not subject to weld sepair or exposed to mecony while in the possession of Eston Steel.

http://www.entensteel.com

Tel: 248-398-3436 Fax: 248-398-1434

10221 Capital Avenue, Oak Perk, 34 46237 USA

GESTAU SEREIA, STREE WORTH ANDRESS. 5591, MOPRELL ASAN JACKSON, MICHIGAN 49813

159452 ORAIN SIZE DI CALCULATION MARCHABILITY 3609 East Front Street Honroe, KI 49161 112M 10909 REV 7 DTO 11/14/45; ASTM A304-11; ASTM A322-13 \$140/ 200H DAN HENAUGHTON EATON STEEL COMPERATION 10271 CAPTAL HYUROGEN = 2.1 ppm OAK PARK, MI 48237 He carrify that these data are correct and in compliance with apecified requirements. 0.42 0.001 0.002 THEORETICAL JI 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 18 20 22 24 26 28 30 32 34 57 57 57 57 57 57 57 57 57 58 58 58 50 48 46 46 45 43 40 38 < 0.81 Z K 5.34 0.011 0.018 0.25 CESTIFIED WATERIAL TEST BESOND ш SPECIFICATION ASTM B112 SPECIFICATION CAT 1E0024 SPECIFICATION ASTM A255/A304 CHEMICAL ANALYSIS 50 CHARDS 6.16 1.00 37 EATON SIEEL CORPORATION C/O APOULD HEAT TREAT 19400 CAPITAL STREET OAK PARK , HI 48237 H 75065500 307423 102 FINE GRAIN 5-B 0.16 30 M Cles 0.27 2 0.010 0.016 5 2/27/16 31

CONTINUED ON PAGE 2

CERTIFIED NATERIAL TEST REPORT

159452 LD909/4140/4234 75065500 B07423 102 2/27/16

DAN XCHAUSHTON
EATON STEEL CORPORATION
10221 CAPIAL

OAK PARK, MI 48237 OAK PARK, MI 48237

MELIED/ROLLED @ GERDAU MONRON; MERIS GAE 1621 85/03 MATING
(NORST FIELD); ASTM 8381 MACRO STCH GATISMACTORY, 51/R1/C1; VACUUM DEGAGGED

\*\* MATERIAL 1001 MELIED AND MANUPACTURED IN THE 9.5.A. BY THE ELECTRIC

ARC PURNACE. AND CONTINUOUS CASTING METHAD. THE PRODUCT MAS NOT

BURN REPAIRED BY WHILPING AND THIS MAISTINL HAS NOT HERN EXPOSED

TO MERCURY OR TO ANY OTHER METAL ALLOY THAT IS LIGHT AT AMBIENT

ISMPERATURES DURING PROCESSING OR WHILE IN OUR POSSESSION.

GERDAU MONITORS ALL INCOMING SCRAP AND ALL HEARS OF ETERL TO ENSURE THAT

OPERAND MONITORS ALL INCOMING SCRAP AND ALL HEARS OF ETERL TO ENSURE THAT

PROTUCTS SKIPPED ARE PREE OF RADIOACTIVE PATERIAL. REDUCTION RACID RESIDUAL YXX RESIDUAL MIN Gerdau Manyaa 3000 Zagt front Street E+S = 0.0290 RATIO= 16.9 TO P+3 = 0.0290 ITEM 10909 RBV 7 414D/42MX PAGE 2 CP 2 ... What there date are correct and in co-pliance with sparkfield requirements. DTD 11/24/13; ASTM A304-11/ ASTM A322-13 1.0 SPECIFICATION ITEM 10909 SPECIFICATION ITEM 10909 EPECIFICATION ITEM 10909 1/4" 9119 CHUINED QXX

Kelite ese-reros bapespersation

### Lab Services Report



19221 Capitel Avenue Oak Park MI 48237 (246)343-3576 telephore (246)386-1434 facsimie

Randy Call Oak Park, MI 10400 Capital Avanue Ship To: Apolio Heat Tracing Report Date: Oak Park, MI 10400 Capital Arransa 01/20/2017

AH5:

Tab@apoliohip com

The report obtains as any for the hiddered services performed on the following sumple(s): TANK THE (1) (2) Round Request ID;

Report ID:

17-0369

Part No . . . 11139 QTSE

| 1905 PAC | 1905 PAC

Seein Rivery

Regar Approved By: Stave Avery

Bechenical Tending ASTW EQU-IGN

PSI CIE PLESY

17.2.18\$1 191.700 924.000

Medit excurs in also at the Radius



Report 0.17-000 and Arts sentence within a pection marked within any and park of Ten Milatory," a current AtlA popregision. Report 0.17-000 and any arms and a current performed by Thyratical Ungrant data at any cent (some lampers and a current performed by Thyratical Ungrant data at any cent (some lampers and a current performed by Thyratical Ungrant data at any cent (some lampers and a current performed by Thyratical Ungrant data at any cent (some lampers and a current performed by Thyratical Ungrant data at any cent performed by Thyratical Ungrant data at a contract performed by the c



## 10430 Capital Averue +Orichark, Michigan 48237 +(244) 398-3434

## CERTIFICATION OF HEAT TREATMENT

Date: 7 / 0 / 3017 Certification Number: 17 · 0057 Customers Order Number: 609248 Part Number: 10909 - 11339 Yeat Number: 75065500 Heat Treat Job Humber: 3401

Material 4140 Quantity: 70 Pcs.

Weight: 23,855 lbs. Pareire x 34' T. Jernyth. Description 2.1500' Diameter x 34' T. Jernyth. Per Specification ESHY H 16140 - 4707

		N/A	Tean per
Air Cooled to Ambien	3 Mour 25 Minutes	3,550 æ	Temper
Water	N/A	102.8 'F - 104.5 'F	Spray Quenched
	50 Minutes	1550°F	, Austentified/Hardened
		N/A	Preheat
		R/A	Mormalized
Coolant	Time at Heat	Temperature	

Method of heat treat monitor, set point thermocouple [Type X). Equipment calibrated per AM\$27505. We hereby certify the above material has been treated in the manner described are correct as

contained in the records of Apollo Heat Treating and Processing, U.C.

Randy L. Caly

Plant Manager

Apollo Heat Treating & Processing, LLC

MATERIAL: <u>1950.</u> DATE:			2	PO BA 0-	vo <u>038</u>	2873/503852
MATERIAL CERT REC D.  QUANTITY RECEIVED:  QUANTITY INSPECTED:  QUANTITY REJECTED:	es 4/12 4/12		THIO	KNESS ORDE KNESS REGE ET SIZE ORDE ET SIZE REGE	VED <u>0-3</u>	2
DESCRIPTION	NCR (Check Y/N)	Transfer to a state of the stat		COMMENT	-S	
SURFACE DAMAGE CORRECT FINISH CORROSION CORRECT GRAIN DIRECTION	Y (N) Y (N)					
CORRECT MATERIAL PER M-DRAWING CORRECT THICKNESS PHOTO REQUIRED CORRECT REF # TO LINK CERT CORRECT MATERIAL IDENTFICATION CORRECT M# ON THE MATERIAL	Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	Aster	\$209 # 1-65-	-2-2		
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF DOES THIS REQUIRE AN EXTRUSION REPORT	Y (A) Y (B)					energ sarbidahana an asamanan anna
CUT SAMPLE PIECE TYPE OF MATERIAL SIZE OF TEST SAMPLE	E OF MA		ND PREFORM BULTS BELOW HRB			. WESSTET
-ARDNESS / DUROMETER READI		located in	the Quality Offic	<u>e</u>		
OC 18 INSPECTION  INSPECTED BY:  DATE:  DAS  9-4-EB 0	2 2018		SIGN	ENGINEER NED OFF BY: DATE:	ING SIGNO	FF (if required

REV. B 01 06 08 DATE B REFORMAT DWG, ADD B209 SPEC (ZN D8-1), PAR 06-020A CP 09-09-26
A NEW ISSUE
DS 01-06-08 DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA
DRAWING NO.
M5052H32S
SHEE 5052-H32 SHEET SPEC DATE 09.09.26 DESIGN DRAWN CHECKED MFG. APPR REV

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 5052-H32 ALUMINUM SHEET

SPECIFICATION:

**8** 

QQ-A-250/8 OR AMS-QQ-A-250/8 OR AMS 4016 OR ASTM B209

PART NUMBER:

M5052H32S.XXX

WHERE ".XXX" = SHEET THICKNESS (IN INCHES) EG. 0.063" THICK SHEET = M5052H32 063

XXX BY 4FT BY 8FT

PREFERRED SIZE:

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-3 BATO- NO 038893/S038528

MATERIAL M202443.5.12.5  DATE FEB 0 2 2018	
QUANTITY RECEIVED: 480.2  QUANTITY INSPECTED: 480.2  QUANTITY REJECTED:	THICKNESS ORDERED .125 THICKNESS RECEIVED .125 SHEET SIZE ORDERED 4X12 SHEET SIZE RECEIVED 4X12
DESCRIPTION (Check	COMMENTS
CORRECT THICKNESS  PHOTO REQUIRED  CORRECT REF # TO LINK CERT  CORRECT MATERIAL IDENTFICATION (N)  CORRECT M# ON THE MATERIAL  DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF  DOES THIS REQUIRE AN EXTRUSION REPORT  CUT SAMPLE PIECE OF MATER	IAL AND PREFORM A HARDNESS CHECK
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	
inspection Das  Inspected by:  Date:  Date:	ENGINEERING SIGNOFF (if required)  SIGNED OFF BY:  DATE

# SPECIFICATION CONTROL DRAWING

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SPECIFICATION: PURCHASE MATERIAL: 2024-T3 ALUMINUM SHEET

QQ-A-250/4 OR AMS-QQ-A-250/4 OR AMS 403Z OR ASTM B209

M2024T3S XXX

PART NUMBER.

EG. 0.063" THICK SHEET = M2024T3S.063 WHERE ".XXX" = SHEET THICKNESS (IN INCHES)

PREFERRED SIZE:

XXX BY 4FT BY 10FT

B REFORMAT DWG, ADD ASTM B209 SPEC (ZN D9-1), PAR CP 09-07-07 M2024T3S 2024-T3 SHEET SPEC COPYRIGHT O 2008 BY DATE ARCSACE LD

COPYRIGHT O DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA SO SO SHEET 1 OF 1 DATE 01.09.24 REV. B

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DRAWN CHECKED MFG. APPR.

APPROVED

DESIGN

A NEW ISSUE

DATE 09.07.07

	180.500 x 2-500 EB 0 2 2019		40 BA OF NO 038893/5038					
MATERIAL CERT REC'D:  QUANTITY RECEIVED:  QUANTITY INSPECTED:  QUANTITY REJECTED  DESCRIPTION  SURFACE DAMAGE  CORRECT FINISH  CORROSION  CORRECT GRAIN DIRECTION  MATERIAL CERT REC'D:  Y. CS  NCR  (Check  Y/N)  N  CORROSION  CORRECT GRAIN DIRECTION  N  N  N  N  N  N  N  N  N  N  N  N	THICKNE SHEET S	ESS ORDERE ESS RECEIVE IZE ORDERE IZE RECEIVE	D: 0.50	0				
DESCRIPTION	(Check	(	COMMENTS	3				
CORRECT FINISH	Y N							
CORRECT THICKNESS	ON ASTM AS	240						
CORRECT REF # TO LINK CERT	1 N Hest #	434L						
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF DOES THIS REQUIRE AN	Y (M)							
EXTRUSION REPORT  CUT SAMPLE PIEC	E OF MATERIAL AND		HARDNES	SICHECA				
TYPE OF MATERIAL S.ZE OF TEST SAMPLE	RECORD RESUL		DURA	DURI	WESSTER			
HARDNESS DUROMETER READI	NG testers located in the	Quality Office						
	testers rocated in the	a curry office						

OC 18 INSPECTION	1	ENGINEERING SIGNOFF (if required
INSPECTED BY:	DAS 1	SIGNED OFF BY:
DATE	9-89 FEB 0 2 2018	DATE

1 2010 -11 - 30 E

O	ADDED RELATE FROM	PLATE TO PUR ED SPECIFICATION 304/316 BAR" TO	ADDED PLATE TO PURCHASE MATERIAL, ADDED PLATE RELATED SPECIFICATIONS, AND EG; CHANGED TITLE FROM "304/316 BAR/PLATE"	MB	10 11 25
8	REFOR	REFORMAT DWG, ADD REF PAR 08-020A	REFORMAT DWG, ADD SPECS (ZN D6-1), REF PAR 08-020A	CP	09 07 15
<	NEW ISSUE	SUE		Hd	05 06.10
REV		3	DESCRIPTION	ВУ	DATE
DESIGN	7	Z.	DART AFROSPACE LTD	CEL	2
DRAWN	7	7	HAWKESBURY, ONTARIO, CANADA	D. CANAL	AC
CHECKED	ED	18	DRAWING NO.		REV. C
MFG. APPR.	PPR.	1/2/1	M304B		SHEET 1 OF 1
APPROVED	VED	100	TITLE		SCALE
DE APPR.	ŎĘ.		304/316 BAR/PLATE		NTS
DATE	10.1	10.11.25	COPYRIGHT © 2005 BY DART AEROSPACE LTD  THE INTERNAL REPORT OF STATE OF STATE OF STATE OF STATE OF STATE  THE INTERNAL OF STATE O	EROSPACE DN 14C ELPHEST TED TO ANY ONA	LTD concinovinalitis delegazovanicali

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SPECIFICATION CONTROL DRAWING

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PURCHASE MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE (NOTE: AISI 303 NOT ACCEPTABLE) SPECIFICATION:

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PART NUMBER:

ASTM A276 OR ASTM A240 M304B|T.TTT |X |WW.WWWW | THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES AND "WW.WWW" = WIDTH IN INCHES

EG. 0.5" x 3.0" BAR = M304B0.500X03.000

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VATERIAL M30 DATE	750x2.50C	D 20 BAT UP NO <b>038893/808</b> 8					
QUANTITY REJECTED.	1e5		THIO: SHEE	KNESS ORDER KNESS REDE V IT SIZE ORDER TIS ZE REDE V	ED 0.7)	-	
DESCRIPTION	NCR (Check			COMMENT	S		
SURFACE DAMAGE	YIN						-
CORRECT FINISH	(Y) N						
CORROSION	YK						
CORRECT GRAIN DIRECTION	ON						
CORRECT MATERIAL PER M-DRAWING	(Y) N		176				
CORRECT THICKNESS	(4) N						
PHOTO REQUIRED	YN		^ ^ -				
CORRECT REF # TO LINK CERT	(X) N	Heat It	26600	20			
CORRECT MATERIAL IDENTFICATION	1						
CORRECT M# ON THE MATERIAL	(Y) N						
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	YK						
DOES THIS REQUIRE AN EXTRUSION REPORT	YN						
CUT SAMPLE PIEC	E OF M	ATERIAL AND	B=E081	A A LIADONIES	S OHEOV	more at a subsequent to a	
COT SAMPLE PIEC		CORD RESULTS			O O EON		
		HRC	HRB	DURA	DURI	, MESS	===
TYPE OF MATERIAL							
SIZE OF TEST SAMPLE				1			
HARDNESS / DUROMETER READ!	NG						
	teste	rs located in the Q	uality Offic	<u>e</u>			

OC 18 INSPECTION		ENGINEERING SIGNOFF (if require
:NSPECTED BY:_	DAS	SIGNED OFF BY:
DATE:	9-89 FEB 0 2 2018	DATE:

SPECIFICATION CONTROL DRAWING

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PURCHASE MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE (NOTE-AIS) 303 NOT ACCEPTABLE)

SPECIFICATION:

ASTM A276 OR ASTM A240 M304B|T.TTT |X|WW.WWW

EG. 0.5" x 3.0" BAR = M304B0.500X03.000 EG. 0.5" X 12.0" PLATE = M304B0.500X12.000

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WHERE "T.TTT" = THICKNESS IN INCHES AND "WW.WWW" = WIDTH IN INCHES

2010-11-30

REFORMAT DWG, ADD SPECS (ZN D8-1), REF PAR 08-020A ADDED PLATE TO PURCHASE MATERIAL, ADDED PLATE RELATED SPECIFICATIONS, AND EG ; CHANGED TITLE FROM '304/316 BAR/PLATE' MB 10 11 25

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DATE

10.11.25

304/316 BAR/PLATE NT COPYRIGHT 0 3005 BY DART AEROSPACE L'TO COPYRIGHT 0 3005 BY DART

SHEET 1 OF 1

REV. C

DE APPR APPROVED

CHECKED MFG. APPR.

M304B

DRAWN DESIGN

NEW ISSUE

DESCRIPTION

ВΥ PH Q Q

05.06.10 DATE

09.07.15

DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA

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MATERIAL: MT-/ DATE: F	EB 0	2 7	018				883/5088
MATERIAL GERT REC D	115			₹,::	OKNESS ORDE	RED W.C	120
QUANTITY RECEIVED:	201	1		TH	OKNESS RECE	VED W.C	126
	01	(			EET S.ZE ORDE		1
QUANTITY REJECTED:	0	/			EET S.ZE RECE		4 .
							'
DESCRIPTION	(Ch	CR leck (N)			COMMEN	TS	
SURFACE DAMAGE		IN)					
CORRECT FINISH	Y	N	}				
CORROSION	V	(N)					
CORRECT GRAIN DIRECTION	(Y)	N				1	
CORRECT MATERIAL PER M-DRAWING	7		Astm	A513	Type 5		
CORRECT THICKNESS	(Y)	N	1	11000	111		
PHOTO REQUIRED	Y	(N)					
CORRECT REF # TO LINK CERT	(8)	N	Hart-	# NLK	1663551		
CORRECT MATERIAL IDENTFICATION	(9)	N	•				
CORRECT M# ON THE MATERIAL	Y	N	1				A 5 % AV
DOES THIS MATERIAL REQUIRE							
ENGINEERING SIGN OFF	Y						
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(2)					
CUT SAMPLE PIEC	F OF	MA	TERIAL A	ND PREFO	RM A HARDNE	SS CHECK	
00.0,000				SULTS BELO			
			HRC	HRB	DJRA	DUR I	. VEBSTE
TYPE OF MATERIAL					1		
S ZE OF TEST SAMPLE							
HARDNESS DUROMETER READI	NG					1	

©C 18 INSPECTION	ENGINEERING SIGNOFF (if leasured
NSPECTED BY:	S'GNED CEE BY
DATE: 9-89FEB 0 2 2018	DATE

B 0 O PART NUMBER: SPECIFICATION: PURCHASE MATERIAL: SPECIFICATION CONTROL DRAWING ASTM A513 TYPE 5 (1020/1026) SEAMLESS ALLOY STEEL ROUND TUBING (DOM) EG. 3/4" ROUND TUBING WITH .120" WALL THICKNESS = MT-A513-T-0.750W0.120 WHERE T.TTT IS WALL THICKNESS IN INCHES WHERE D.DDD IS OUTSIDE DIAMETER IN INCHES MT-A513-T-[D.DDD]W[T.TTT] ASTM A513 TYPE 5 TYPE 5 ADDED, TEMPLATE UPDATED NEW RELEASE DESCRIPTION ASTM A\$13 TYPE 5 (1020/1026) ALLOY STEEL ROUND TUBING (DOM) 17-790 ECN# MT-A513-T 17.12.13 17.09.06 MA NN PR MW ME 0 D

MATERIAL <u>M.1</u> Date:	FFR	0.7	7018			0200	93/503852		
<i>DA</i> . L.	1 20	0 2 .							
MATERIAL CERT REC'D:	10	5		THICK	NESS ORDE	RED 2.2	50		
QUANTITY RECEIVED:	(70	11		THICKNESS ORDERED: 2.250 THICKNESS RECEIVED: 2.250					
	0-0	LT.							
QUANTITY INSPECTED:	40					RED V	<i>71</i>		
QUANTITY REJECTED				SHEET	S ZE RECE"	VED/_	4		
	<b>N</b>	30							
DESCRIPTION		CR eck	16 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8		COMMENT	S			
	1 '	N)			0011111.2.1	. 0			
SURFACE DAMAGE	Y	(N)							
CORRECT FINISH	0	N							
CORROSION	Y				An and the second secon				
CORRECT GRAIN DIRECTION		N				A-			
CORRECT MATERIAL PER M-DRAW		N	Astm 414	OQT	Astus	41420	<u> </u>		
CORRECT THICKNESS	Ø	N							
PHOTO REQUIRED  CORRECT REF # TO LINK CER	T (Y)		11. 44 71	1/5-					
ORRECT MATERIAL IDENTFICATION	-	N	Heat # 75	0635	00		***		
CORRECT M# ON THE MATERIA	- 3	N							
DOES THIS MATERIAL REQUIR							in 1985ani, a gen		
ENGINEERING SIGN OFF	Y	R							
DOES THIS REQUIRE AN									
EXTRUSION REPORT	Y	N							
CUT SAMPLE P	IECE OF	3/1/37	FERIAL AND RE	PEODLE	A HADONE	SSOUECX			
OO! OAWN EE!			ORD RESULTS		A: .A(12.4E)	00 0: :20.1			
				RB	DJRA	DURI	WEBSTE-		
YPE OF MATERIAL									
ZE OF TEST SAMPLE							:		
ARDNESS / DUROMETER RE	ADING						Sanda and Administrative Control of the Control of		
	te	sters	located in the Qua	lity Office					
C 18 INSPECTION					ENGINEER	RING SIGNO	FF (if require		
DAS									
INSPECTED BY:				SIGN	ED OFF BY:				
The state of the s	B 0 2 21	118							
INA I E.	- V & L1	7 TU			. 121 -				

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

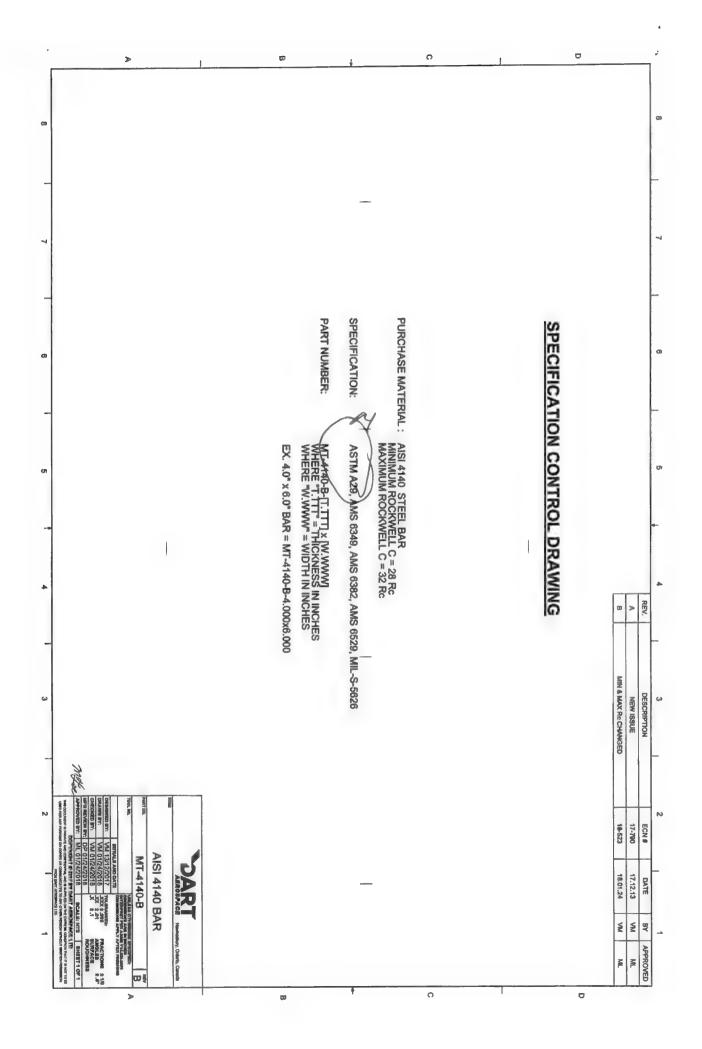
DATE:

DATE:

0 SPECIFICATION CONTROL DRAWING PART NUMBER: SPECIFICATION: PURCHASE MATERIAL: AISI 4140 QUENCHED & TEMPERED STEEL ROUND BAR ASTM 4140 QT or ASTM 4142 QT On EG. 5/8" ROUND BAR = MT-4140QT-R0.625 MT-4140QT-R [D.DDD] WHERE "D.DDD" = DIAMETER IN INCHES REV 557 L M NEW ISSUE DESCRIPTION MT-4140QT-R

ORSIGNAY
VM-8/9/2017
VM-8/9/2 AISI 4140 Q&T ROUND BAR DART
AEROPAGE Hawkesbury, Drizero, Carnada 17.09.12 DATE BY APPROVED VM

MATERIAL MT-4140 Q DATE FEBURY	T-R1375 - 32 32 32 NO 038893/503852
MATERIAL CERT REC D QUANTITY RECEIVED QUANTITY INSPECTED QUANTITY REJECTED	THICKNESS ORDERED 1.375 THICKNESS RECEIVED 1-375 SHEET SIZE ORDERED. SHEET'S ZE RECEIVED N/A
NCR	
DESCRIPTION (Check	COMMENTS
SURFACE DAMAGE Y (N	
CORRECT FINISH (Y) No.	
CORROSION Y (N)	
CORRECT GRAIN DIRECTION N	
CORRECT MATERIAL PER M-DRAWING (V) N	ASTM A29
CORRECT THICKNESS Y N	April 18 com and purply approximate the purpl
PHOTO REQUIRED Y (N)  CORRECT REF # TO LINK CERT (Y) N	Hant # 243795
CORRECT MATERIAL IDENTFICATION N	HONTH 29310
CORRECT M# ON THE MATERIAL (7) N	
DOES THIS MATERIAL REQUIRE	
ENGINEERING SIGN OFF Y	
DOES THIS REQUIRE AN	
EXTRUSION REPORT Y (N)	
RECO	TERIAL AND PREFORM A HARDNESS CHECK  ORD RESULTS BELOW  HRC HRB DUR A DUR 2 WEBSTER
TYPE OF MATERIAL	
SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	
	located in the Quality Office
iesters.	nocated in the educity office
©C 18 INSPECTION	ENGINEERING SIGNOFF (if required
DAS INSPECTED BY: 11	S!GNED OFF BY:
	SIGNED UI. DI.
DATE: 9-89 FEB 0 2 2018	



MATERIAL:	124 24 24	S CR	2018	T!	HICKNES HICKNES HEET SIZ	SS ORDER	RED: 1.0 VED: 1.0 RED: //	000
QUANTITY RECEIVED: //	(Cr	CR		T!	HEET SIZ	S RECEN ZE ORDER	VED: 1-C	000
QUANTITY RECEIVED: //	(Cr	CR		T!	HEET SIZ	S RECEN ZE ORDER	VED: 1-C	000
QUANTITY INSPECTED:	(Cr	CR		S	HEET SIZ	ZE ORDER	RED: N	1 .
	(Cr	CR						A
QUANTITY REJECTED:	(Cr	CR		. Si	HEET SIZ	ZE RECE!	VED: N	A
	(Cr	CR	1 1 1 1 1 1 1					
	(Cr	CR	3 4 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7					
DESCRIPTION		rock	9 9 9		C	OMMENT	S	and process many distribution for the space of the first of the space
DESCRIPTION		(N)	Process of the second			O:4110. = . t .		
SURFACE DAMAGE	1	IN						
CORRECT FINISH	N	-						
CORROSION	Y	(N)						
CORRECT GRAIN DIRECTION	(1)	N						
CORRECT MATERIAL PER M-DRAWING	C	N	ASTM	A582				
CORRECT THICKNESS	0	N		100.				
PHOTO REQUIRED	Y	O						
CORRECT REF # TO LINK CERT	X		Heat	# 23	2X			A SECURE OF PRINCIPAL SECURITY OF PERSONS ASSESSED.
CORRECT MATERIAL IDENTFICATION		N						
CORRECT M# ON THE MATERIAL	M	N						
DOES THIS MATERIAL REQUIRE		(5)						
ENGINEERING SIGN OFF	Y	0						
DOES THIS REQUIRE AN	Y	(N)						
EXTRUSION REPORT	1	I	1					
							00 01 150 14	www.coplector.deficientst.com - 1 from 180 % 10
CUT SAMPLE PIEC				ULTS BEL		TAKUNE		
			HRC	HRB		URA	DURD	WEBSTER
TYPE OF MATERIAL							4	-
SIZE OF TEST SAMPLE								
HARDNESS / DUROMETER READ								
	1	esters	located in	the Quality	Office			
								- in the second
QC 18 INSPECTION DAS					E	NGINEER	RING SIGNO	FF (if require

DAS

INSPECTION

DAS

INSPECTED BY:

9-89 FEB 0 2 2018

DATE:

BY:

DATE:

BY:

DATE:

R 2010 -02- 02

REV. B SCALE CP 10.01.05
DS 01.12.20
BY DATE SHEET 1 OF 1 DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA
M303R COPYRIGHT @ 2001 BY DART AEROSPACE LTD 303 ROUND BAR B REFORMAT DWG. ADD SPECS (ZN D8-1),
REF PAR 08-020A
A NEW ISSUE 10.01.05 CHECKED
MFG. APPR.
APPROVED
DE APPR.
DATE 10.( DESIGN DRAWN REV.

PURCHASE MATERIAL: AISI 303 SS ROUND BAR (ADTE: AISI 304/316 NOT ACCEPTABLE)

SPECIFICATION:

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ASTM A582

PART NUMBER:

WHERE "D.DDD" = DIAMETER IN INCHES EG. 0.75" ROUND BAR = M303R0.750 M303RID.DDD

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SPECIFICATION CONTROL DRAWING

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MATERIAL: DATE:	M606176 R 1.625 FEB 0 2 2018	PO / BATCH NO.: <u>038893/50385</u> 2
MATERIAL CERT REC'D: QUANTITY RECEIVED: QUANTITY INSPECTED: QUANTITY REJECTED:	12"	THICKNESS ORDERED: 1.625 THICKNESS RECEIVED: 1-625 SHEET SIZE ORDERED: 1/A SHEET SIZE RECEIVED: 1/A

	NO	CR	
DESCRIPTION		eck	COMMENTS
	Y/	N)	
SURFACE DAMAGE	Y	N	/
CORRECT FINISH	(Y)	N	
CORROSION	Y	W	
CORRECT GRAIN DIRECTION	8	N	
CORRECT MATERIAL PER M-DRAWING	(8)	N	A5+M B221
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT REF # TO LINK CERT	8	N	Hest# 2017/6738
CORRECT MATERIAL IDENTFICATION	(B)	N	
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE		9	
ENGINEERING SIGN OFF	Y	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(Ñ)	

CUT SAMPLE PIECE OF	MATERIAL A			SS CHECK.	
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY:	DAS	SIGNED OFF BY:
DATE:	9-8FEB 0 2 2018	DATE:

# SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR

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QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116) OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160) OR ASTM B211 OR ASTM B221

EG. 5/8" ROUND BAR = M6061T6R0.625 WHERE "D.DDD" = DIAMETER IN INCHES PART NUMBER:

M6061T6R|D.DDD| |DIA.

SPECIFICATION:

DE APPR. MFG. APPR. DRAWN DESIGN APPROVED B REFORMAT DWG, ADD B211& B221 SPEC (ZN D8-1).
A NEW ISSUE 09.07.13 M6061T6R 6.061-T6 ROUND BAR NTG DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA BY CP SHEET 1 OF 01.06.08 09.07.13 DATE REV. B SCALE SIN

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